

PUBLIC NOTICE

US Army Corps of Engineers New York District Jacob K. Javits Federal Building New York, N.Y. 10278-0090 ATTN: Regulatory Branch

In replying refer to:

Public Notice Number: 2004-01322-YW

Issue Date: February 11, 2005 Expiration Date: March 13, 2005

To Whom It May Concern:

The New York District, Corps of Engineers has received an application for a Department of the Army permit pursuant to Section 404 of the Clean Water Act (33 U.S.C. 1344).

APPLICANT:

The City of New York Department of Environmental Protection

59-17 Junction Boulevard Flushing, NY 11373-5108

ACTIVITY:

Discharge fill materials into wetlands in conjunction with the construction of the

Catskill/Delaware Ultraviolet Light Disinfection Facility and provide mitigation.

WATERWAY:

Mine Brook, Hudson River

LOCATION:

Town of Mount Pleasant and Greenburgh, Westchester County, New York.

A detailed description and plans of the applicant's activity are enclosed to assist in your review.

The decision whether to issue a permit will be based on an evaluation of the probable impact, including cumulative impacts, of the proposed activity on the public interest. That decision will reflect the national concern for both protection and utilization of important resources. The benefits which reasonably may be expected to accrue from the proposal must be balanced against its reasonably foreseeable detriments. All factors which may be relevant to the proposal will be considered including the cumulative effects thereof; among those are conservation, economics, aesthetics, general environmental concerns, wetlands, historical properties, fish and wildlife values, floodplain values, land use, navigation, shoreline erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food and fiber production, mineral needs, consideration of property ownership and, in general the needs and welfare of the people.

The Corps of Engineers is soliciting comments from the public; Federal, state, and local agencies and officials; Indian Tribes; and other interested parties in order to consider and evaluate the impacts of this proposed activity. Any comments received will be considered by the Corps of Engineers to determine whether to issue, modify, condition or deny a permit for this proposal. To make this decision, comments are used to assess impacts on endangered species, historic properties, water quality, general environmental effects, and the other public interest factors listed above. Comments are used in preparation of an Environmental Assessment and/or an Environmental Impact Statement pursuant to the National Environmental Policy Act. Comments are also used to determine the need for a public hearing and to determine the overall public interest of the proposed activity.

ALL COMMENTS REGARDING THE PERMIT APPLICATION MUST BE PREPARED IN WRITING AND MAILED TO REACH THIS OFFICE BEFORE THE EXPIRATION DATE OF THIS NOTICE, otherwise, it will be presumed that there are no objections to the activity.

Any person may request, in writing, before this public notice expires, that a public hearing be held to collect information necessary to consider this application. Requests for public hearings shall state, with

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particularity, the reasons why a public hearing should be held. It should be noted that information submitted by mail is considered just as carefully in the permit decision process and bears the same weight as that furnished at a public hearing.

Our preliminary determination is that the activity for which authorization is sought herein is not likely to affect any Federally endangered or threatened species or their critical habitat. However, pursuant to Section 7 of the Endangered Species Act (16 U.S.C. 1531), the District Engineer is consulting with the appropriate Federal agency to determine the presence of and potential impacts to listed species in the project area or their critical habitat.

Based upon a review of the latest published version of the National Register of Historic Places, there are no known sites eligible for, or included in, the Register within the permit area. Presently unknown archeological, scientific, prehistorical, or historical data may be lost by work accomplished under the required permit.

Reviews of activities pursuant to Section 404 of the Clean Water Act will include application of the guidelines promulgated by the Administrator, U.S. Environmental Protection Agency, under authority of Section 404 (b) of the Clean Water Act and the applicant will obtain a water quality certificate or waiver from the appropriate state agency in accordance with Section 401 of the Clean Water Act prior to a permit decision.

In addition to any required water quality certificate, the applicant has requested authorization from New York State Department of Environmental Conservation for the activity under consideration.

It is requested that you communicate the foregoing information concerning the activity to any persons known by you to be interested and who did not receive a copy of this notice. If you have any questions concerning this application, you may contact this office at (212) 264-3912 and ask for Frank Tangorra.

For more information on New York District Corps of Engineers programs, visit our website at http://www.nan.usace.army.mil

Richard L. Tomer

Chief, Regulatory Branch

Enclosures

WORK DESCRIPTION

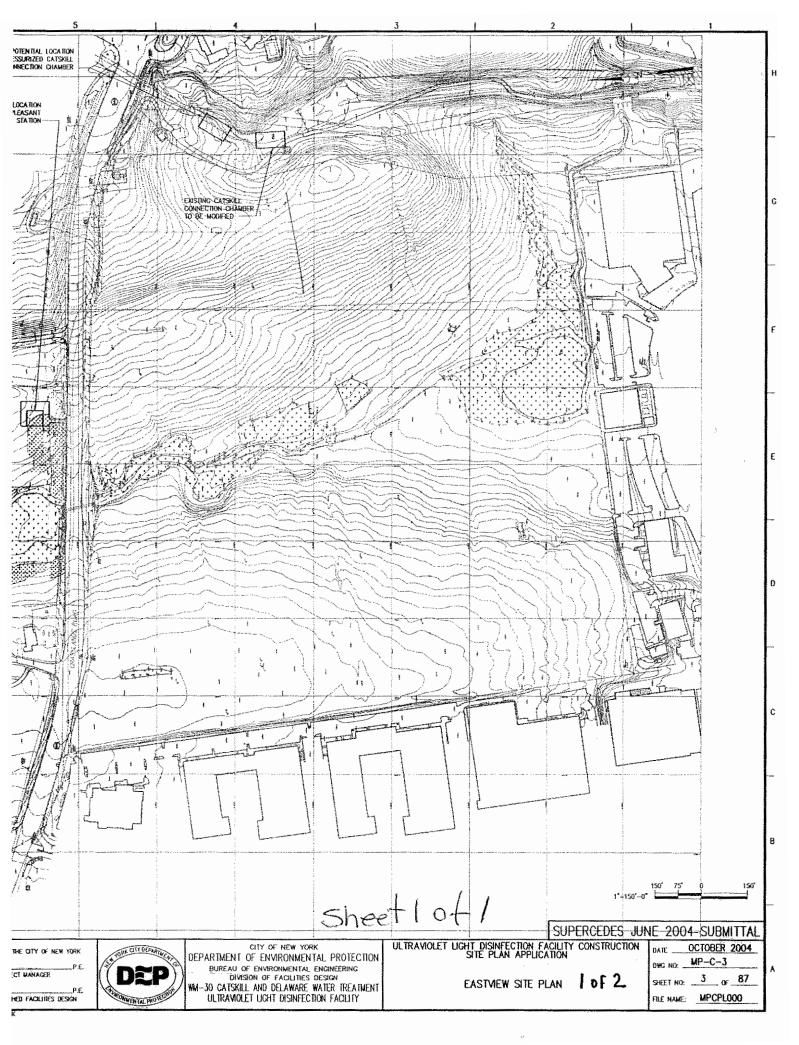
The applicant, The City of New York Department of Environmental Protection (NYCDEP), has requested Department of the Army authorization to discharge fill materials into wetlands in conjunction with the construction of the Catskill/Delaware Ultraviolet Light Disinfection Facility and provide mitigation in Mine Brook at the Eastview site in the Towns of Mount Pleasant and Greenburgh, Westchester County, New York.

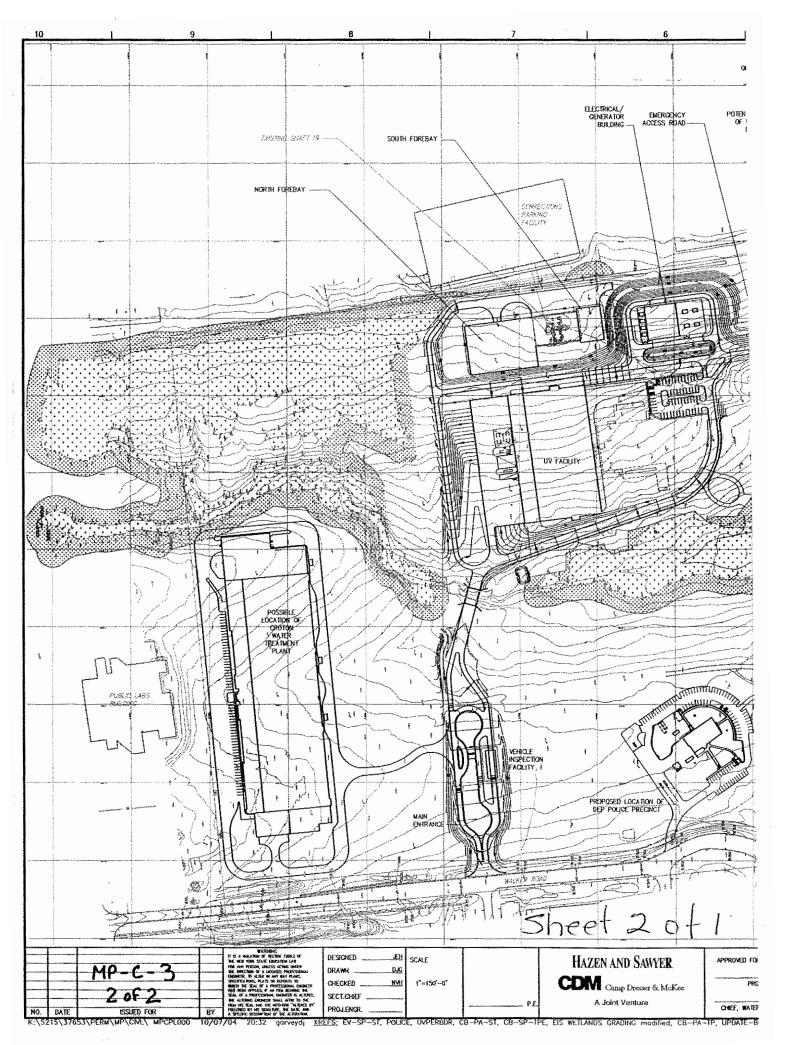
The work would involve the filling of approximately 3.1 acres of non-tidal wetlands to construct the Catskill/Delaware Ultraviolet Light Disinfection Facility (ULDF). Included in the fill is the estimation of 1.1 acres of floodplain forest wetland immediately north and west of the facility that would be indirectly impacted by groundwater dewatering operations.

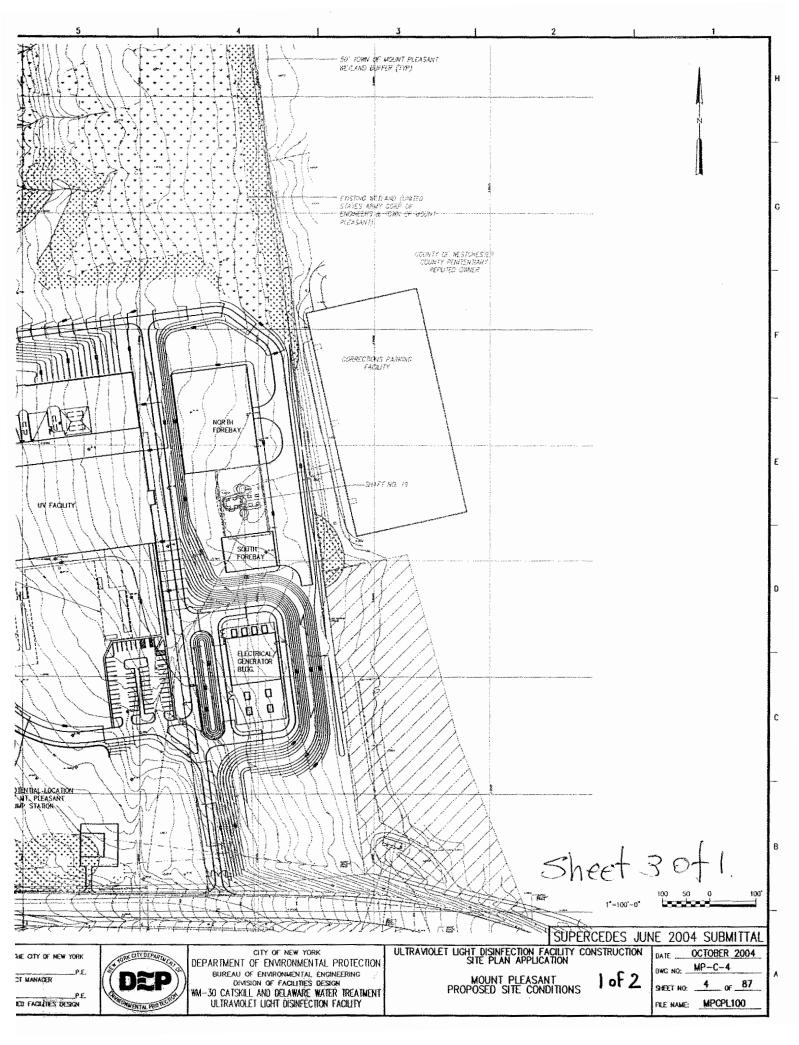
Approximately 13 acres of wetlands would be created/enhanced on-site and off-site to mitigate the loss of the existing wetlands. West of Mine Brook/north of Route 100C approximately 1.4 acres would be created/enhanced on Eastview North parcel. Between and adjacent to Mine Brook wetlands approximately 6.1 acres would be created in Eastview south parcel. Near Route 22 in Town of North Castle approximately 5.5 acres would be created/enhanced. The o-site and off-site wetland enhancement and creation associated with the proposed project would replace existing poor quality habitat and degraded site conditions with diverse, native wetland plantings through the creation/enhancement of forested wetlands, wet meadows and emergent wetlands.

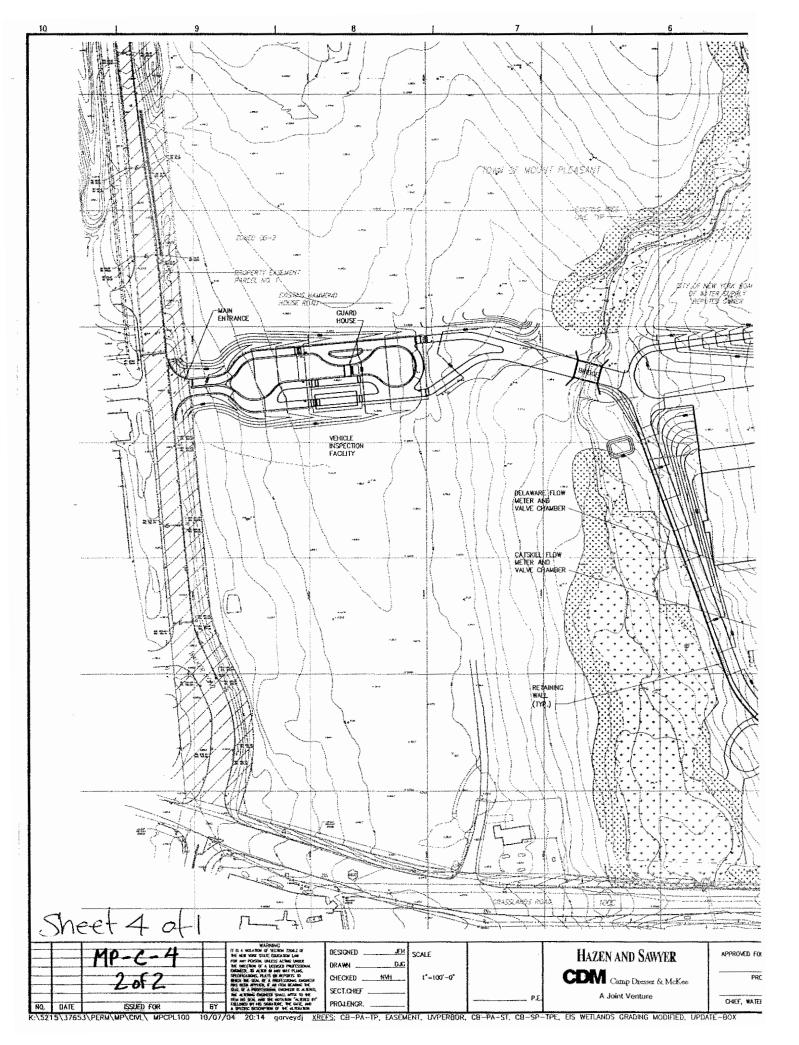
The No Action alternative would put New York City (NYC) in violation of the US Environmental Protection Agency's 2002 Filtration Avoidance Determination. Ten alternatives to the proposed facility were examined, including two alternative site for the facility and one alternative that explores the feasibility of locating the facility on a different part of the Eastview site. NYCDEP selected the Eastview Site for the ULDF because it would be the most appropriate site within the context of a long term comprehensive system improvement program being developed by NYCDEP. Locating the facility at Eastview site would position the facility downstream of a possible future filtration plant should NYCDEP ever be required to construct one, allowing filtered water to receive UVD treatment prior to being returned to the Catskill and Delaware Aqueducts. The facility is proposed for the southeast portion of the north parcel of the Eastview site. While this location would introduce a number of potential impacts it was determined that this location is the preferred to allow for operation flexibility, allow for connections to the Kensico City Tunnel and minimize construction costs and environmental impacts.

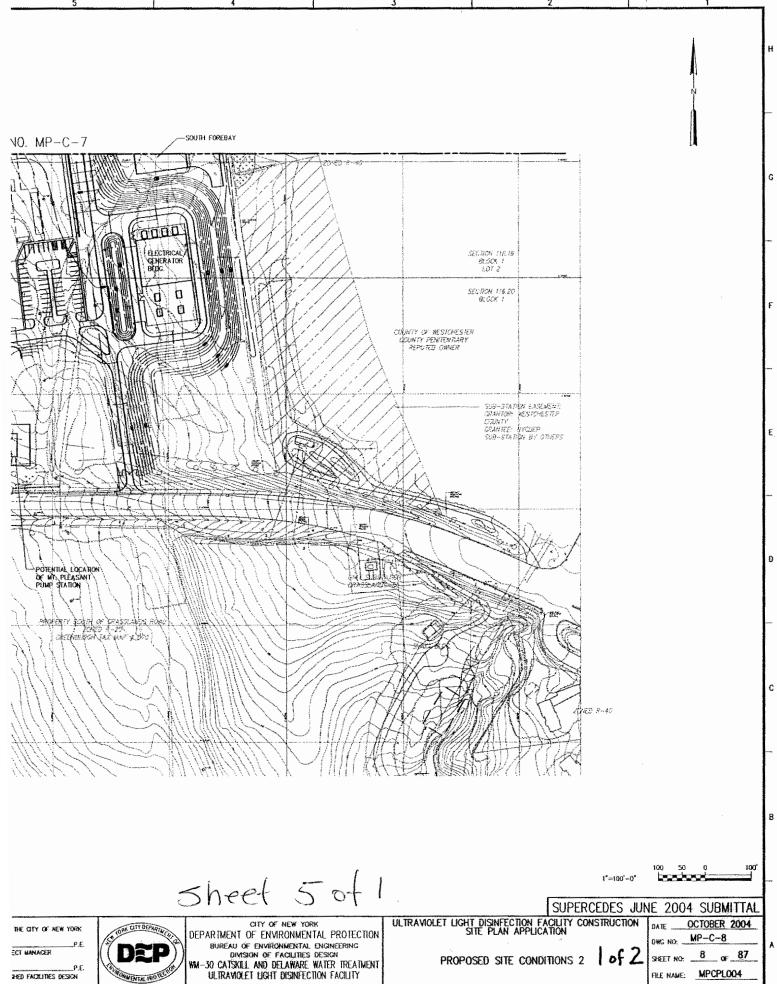
The stated purpose of UVDF is to improve and ensure high quality water for Catskill/Delaware Water Supply System.



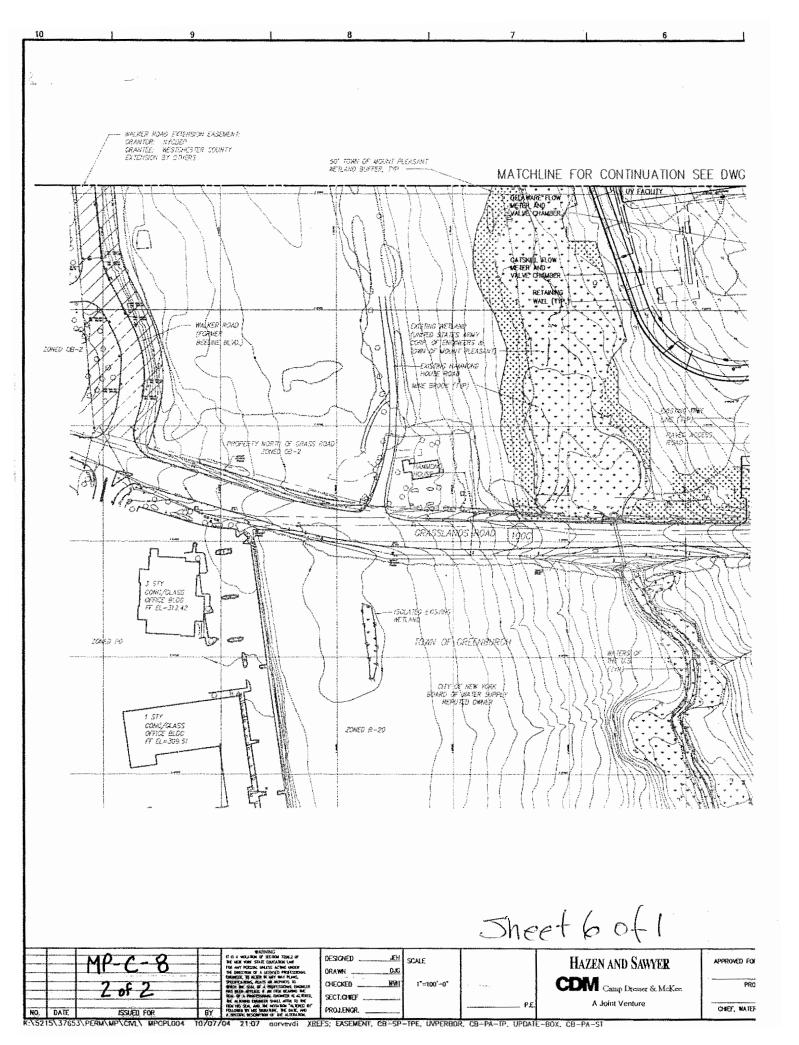


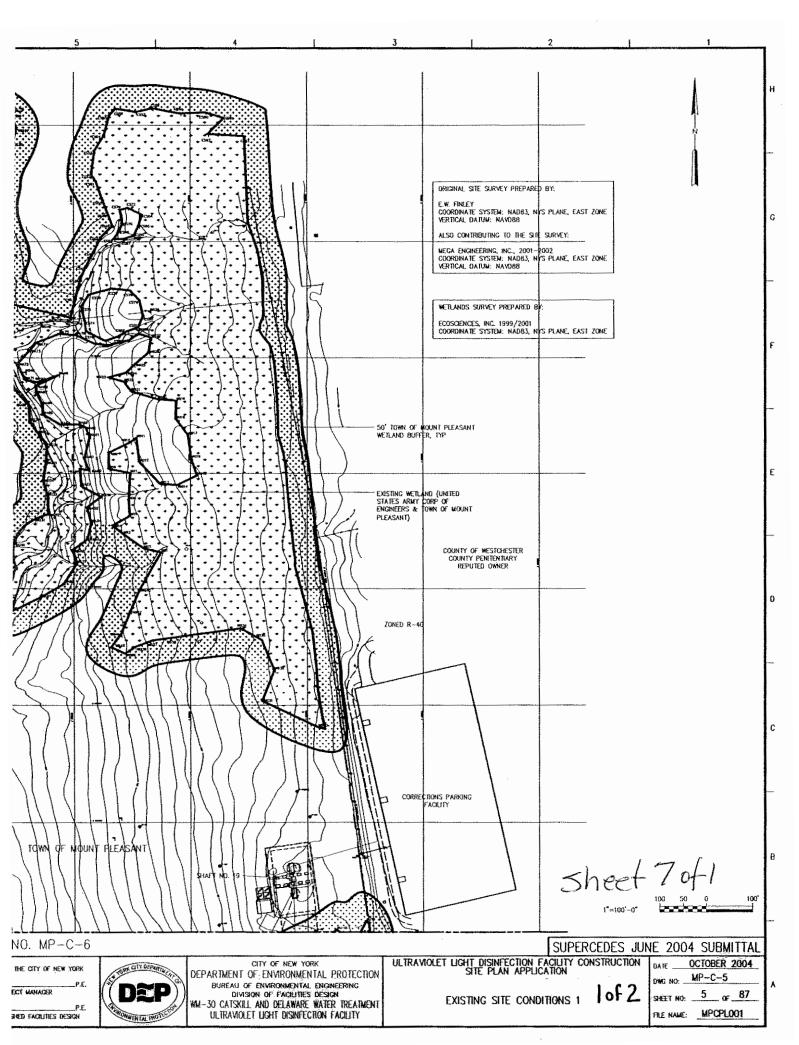


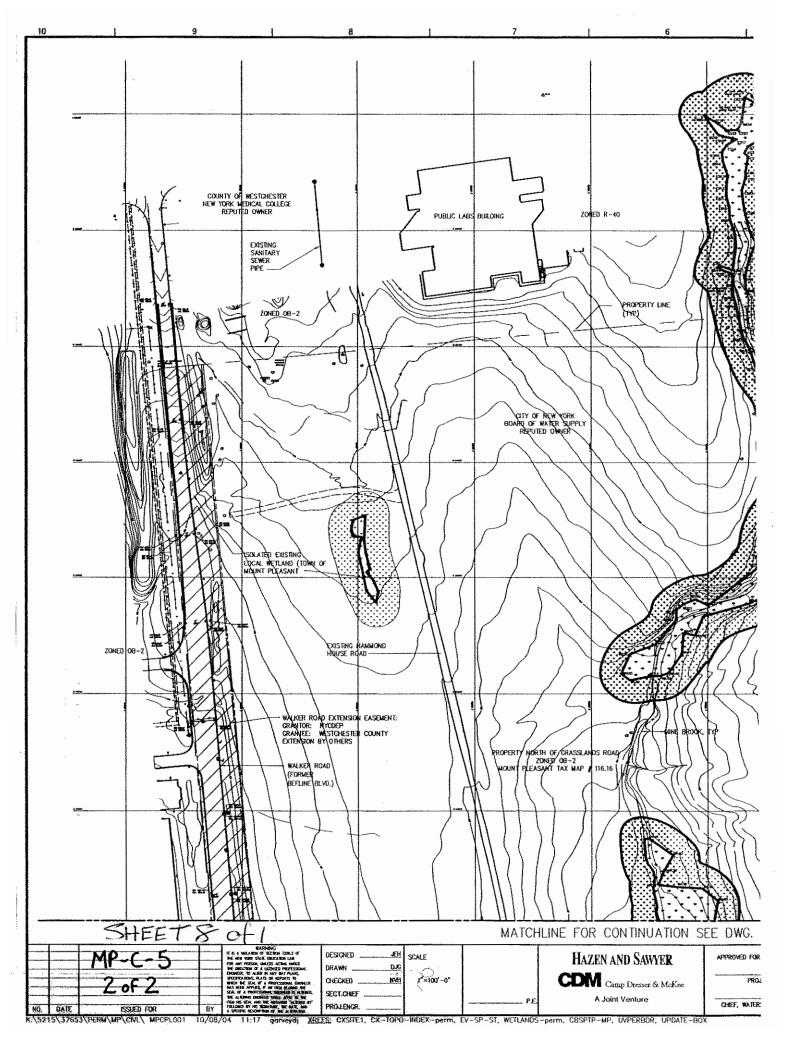


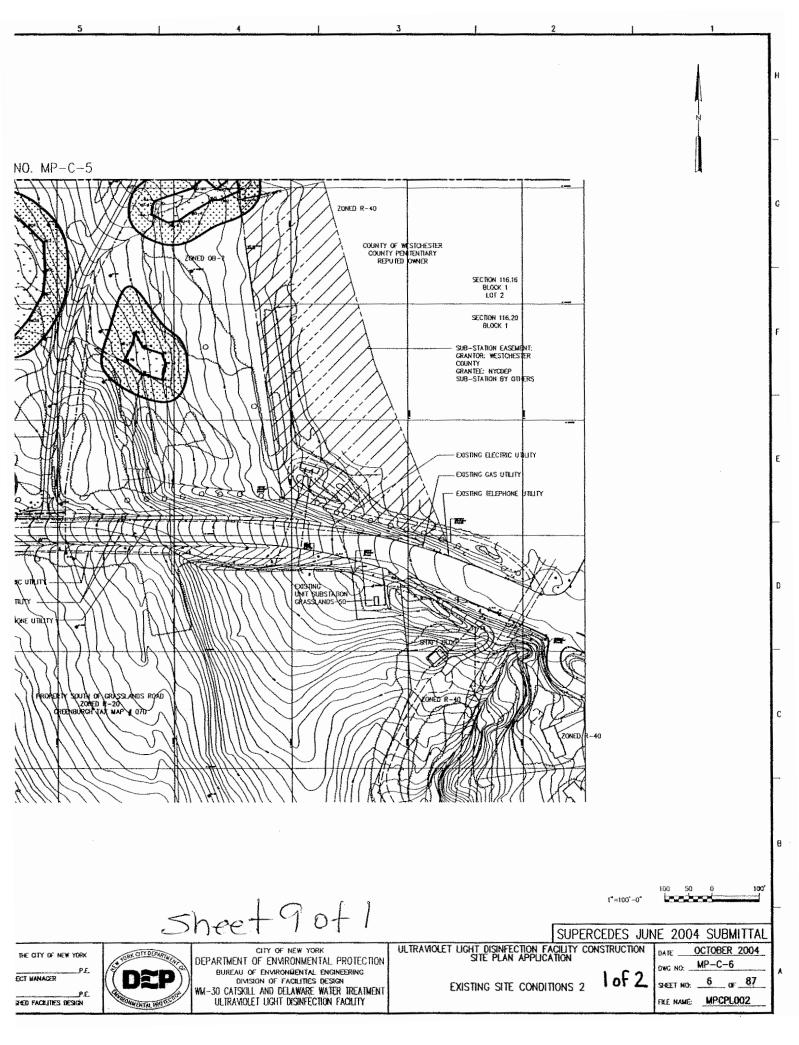


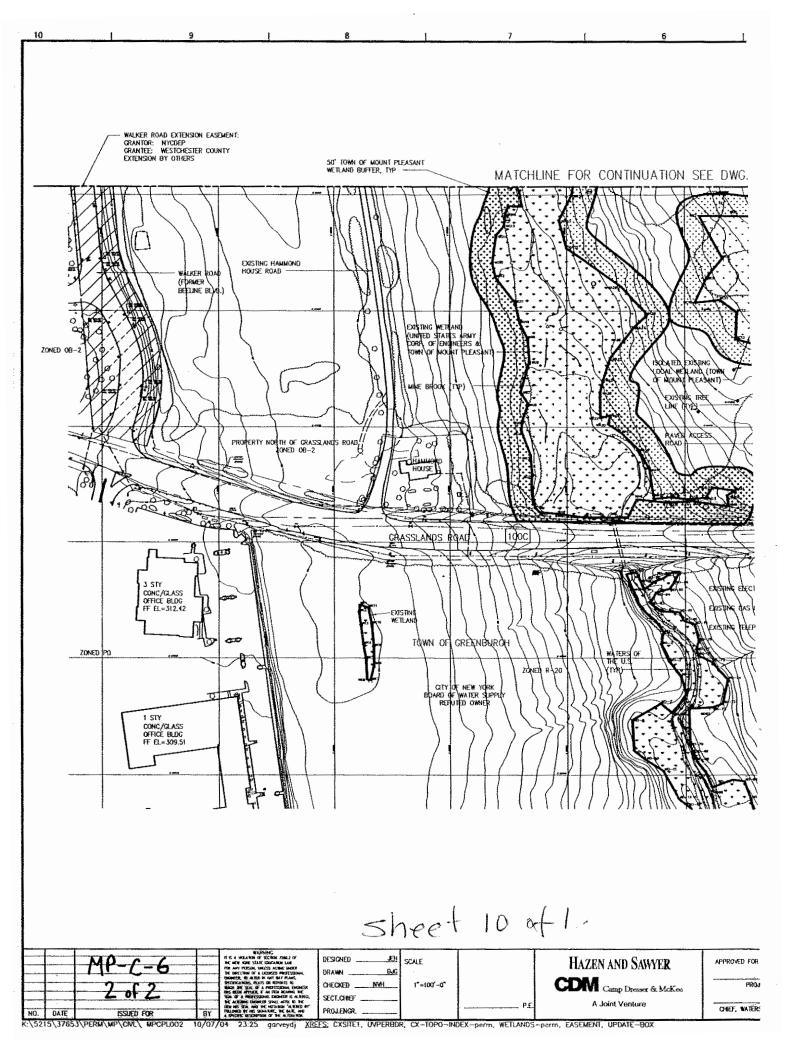
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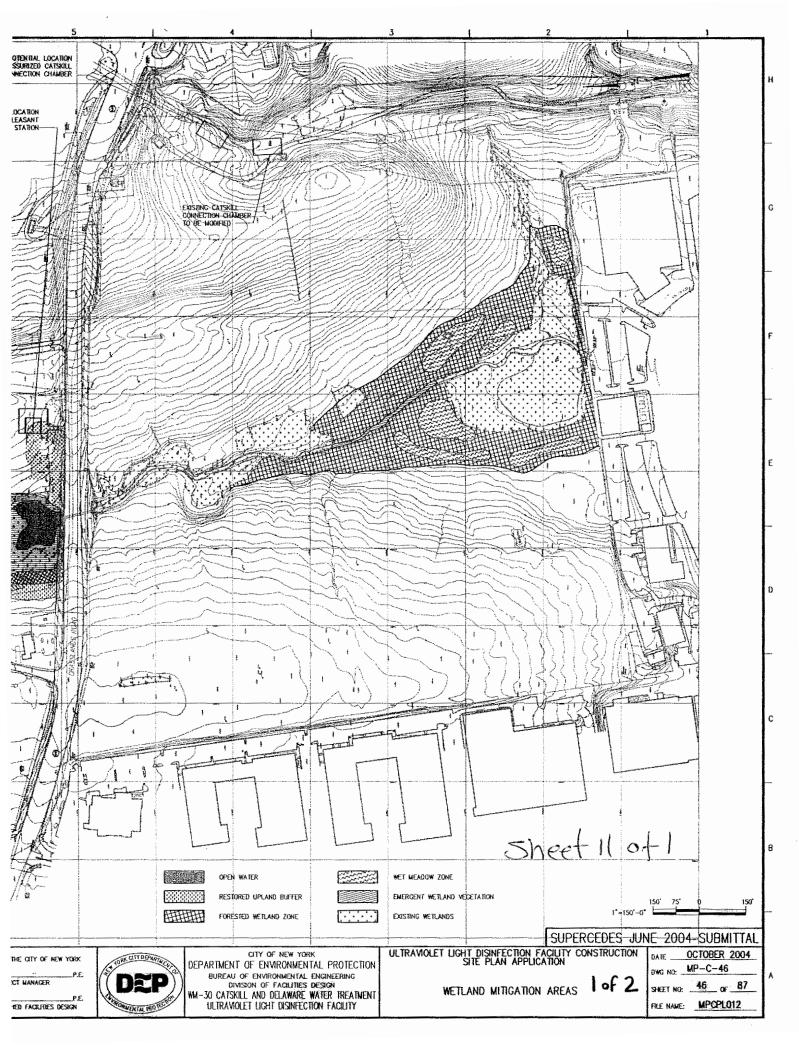


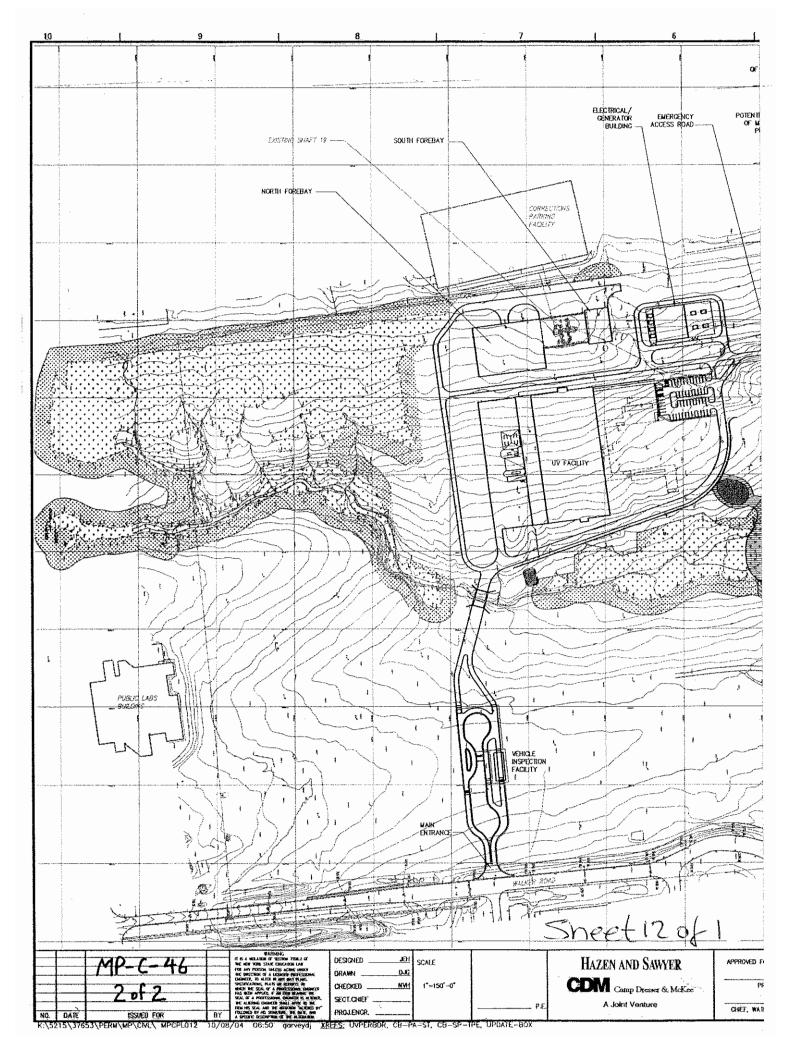


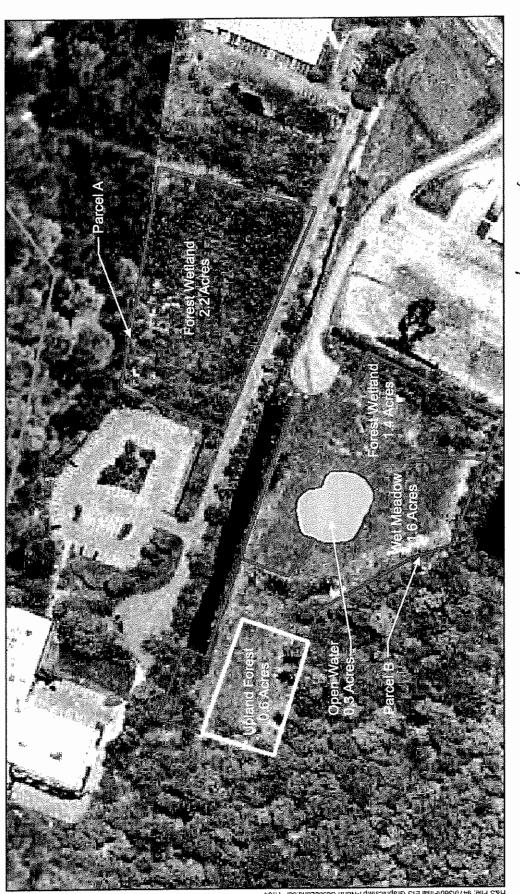












Sheef 13 $o \in I$ Off-Site Reforestation and Wetland Mitigation Town of North Castle

TABLE 6.1-17. MOUNT PLEASANT WETLAND MITIGATION PLANT SCHEDULE SUMMARY

Forested Wetland Zone (0.2 acres)

Canopy Trees Typical Species Red Maple, Green Ash, Pin Oak, Yellow Birch, Sweet Gum, Swamp White Oak

Density 100 trees/acre (20' o.c.)

Size 1.5"-2" caliper, 6'-8' whip, 4'-6' whip, 2'-4' whip

Quantity 20

Understory Trees Typical Species Ironwood, Shadblow, Alternate-leaved Dogwood, American Hornbeam, Pussy Willow

Density 50 trees/acre (30' o.c.)

Size 8'-10' Quantity 10

Shrubs Typical Species Witch Hazel, Spice Bush, Arrowwood Viburnum, Red-panieled Dogwood, Hardhack Spirea

Density 675 plants/acre (8' o.c.) Size from 18"-24" to 3'-4'

Quantity 135

Herbaceous Typical Species Woodland Aster, Joe-Pye Weed, Sensitive Fern, Boneset, False Solomon's Seal

Density 2,025 plants/acre (3X shrub density)

Size 1 qt. Container

Quantity 400

Restored Upland Buffer Zone (0.4 acres)

Canopy Trees Typical Species Red Maple, American Beech, Red Oak, Tulip Poplar, White Ash

Density 100 trees/acre (20' o.c.)

Size 1.5"-2" caliper, 6'-8' whip, 4'-6' whip, 2'-4' whip

Quantity 40

Understory Trees Typical Species Shadblow, American Hornbeam, Alternate-leaved Dogwood, American Holly, Blackhaw

Viburnum

Density 50 trees/acre (30' o.c.)

Size 8'-10' Quantity 20

Shrubs Typical Species Black Chokeberry, American Filbert, Atlantic Leatherwood, Carolina Rose, Arrowwood

Viburnum

Density 675 plants/acre (8' o.c.) Size from 18"-24" to 3'-4'

Quantity 270

Herbaceous Typical Species White Baneberry, Jack in the Pulpit, Woodland Aster, White Snakeroot, Mayapple,

Scented Goldenrod

Density 2,025 plants/acre (3X shrub density)

Size 1 qt. Container

Quantity 800

Emergent Wetland Zone (0.8 acres)

Herbaceous Typical Species Soft Rush, Arrow Arum, Softstem Bułrush, Blueflag, Pickerelweed

Density 19,600 plants/acre (1.5' o.c.)

Size 1 qt. Container Quantity 15,680

Open Water (0.4 acres)

Herbaceous Typical Species Spatterdock, Fragrant White Water Lily

Density 43, 250 plants/acre (1.0' o.c.)

Size 1 qt. Container Quantity 17,300

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TABLE 6.1-19. GREENBURGH WETLAND MITIGATION PLANT SCHEDULE SUMMARY

Forested Wetland Zone (4.6 acres)

Canopy Trees Typical Species Red Maple, Green Ash, Pin Oak, Yellow Birch, Swamp White Oak

Density 150 trees/acre (17' o.c.)

Size 1.5"-2" caliper, 6'-8' whip, 4'-6' whip, 2'-4' whip

Quantity 700

Understory Trees Typical Species Ironwood, Shadblow, Alternate-leaved Dogwood, American Hornbeam, Pussy Willow

Density 50 trees/acre (30' o.c.)

Size 8'-10' Quantity 225

Shrubs Typical Species Witch Hazel, Spice Bush, Arrowwood Viburnum, Red-panicled Dogwood, Hardhack Spirea

Density 675 plants/acre (8' o.c.) Size from 18"-24" to 3'-4'

Quantity 3,100

Herbaceous Typical Species Woodland Aster, Joe-Pye Weed, Sensitive Fern, Boneset, False Solomon's Seal

Density 2,025 plants/acre (3X shrub density)

Size 1 qt. Container

Quantity 9,300

Restored Upland Forest Zone (0.8 acres)

Canopy Trees Typical Species Red Maple, American Beech, Red Oak, Tulip Poplar, White Ash

Density 150 trees/acre (17' o.c.)

Size 1.5"-2" caliper, 6'-8' whip, 4'-6' whip, 2'-4' whip

Quantity 120

Understory Trees Typical Species Shadblow, American Hornbeam, Alternate-leaved Dogwood, American Holly, Blackhaw

Viburnum

Density 50 trees/acre (30' o.c.)

Size 8'-10' Quantity 40

Shrubs Typical Species Black Chokeberry, American Filbert, Atlantic Leatherwood, Carolina Rose, Arrowwood

Viburnum

Density 675 plants/acre (8' o.c.) Size from 18"-24" to 3'-4'

Quantity 550

Herbaceous Typical Species White Baneberry, Jack in the Pulpit, Woodland Aster, White Snakeroot, Mayapple,

Scented Goldenrod

Density 2,025 plants/acre (3X shrub density)

Size 1 qt. Container

Quantity 1,600

Wet Meadow Zone (1.4 acres)

Shrubs Typical Species Common Alder, Silky Dogwood, Common Winterberry, Swamp Rose, Northern Blackberry

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Density 1,225 plants/acre (6' o.c.) Size from 18"-24" to 3'-4'

Quantity 1,700

Herbaceous Typical Species Big Blue Stem, Swamp Milkweed, Hyssop-leaved Boneset, Cinnamon Fern, Switchgrass

Density 3,675 plants/acre (3X shrub density)

Size 1 gt. Container

Quantity 5,145

Emergent Wetland Zone (0.1 acres)

Herbaceous Typical Species Soft Rush, Arrow Arum, Softstem Bulrush, Blueflag, Pickerelweed

Density 19,600 plants/acre (1.5' o.c.)

Size 1 qt. Container

Quantity 2,000

FEIS MITIGATION

TABLE 6.1-20. NORTH CASTLE (PARCEL A) WETLAND MITIGATION PLANT SCHEDULE SUMMARY

Forested Wetland Zone (2.2 acres)

Canopy Trees Typical Species Red Maple, Green Ash, Pin Oak, Yellow Birch, American Elm, Swamp White Oak

65 trees/acre (25' o.c.) Density

1.5"-2" caliper, 6'-8' whip, 4'-6' whip, 2'-4' whip

Quantity

Understory Trees Typical Species Ironwood, Alternate-leaved Dogwood, American Hornbeam, Pussy Willow, Black Gum

35 trees/acre (35' o.c.) 8'-10' Density

Quantity

Shrubs Typical Species Witch Hazel, Spice Bush, Arrowwood Viburnum, Red-panicled Dogwood, Hardhack Spirea

675 plants/acre (8' o.c.) Density

from 18"-24" to 3'-4' Size Quantity

Herbaceous Typical Species Woodland Aster, Joe-Pye Weed, Sensitive Fern, Boneset, False Solomon's Seal

2,025 plants/acre (3X shrub density) Density

1 qt. Container

Quantity

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TABLE 6.1-21. NORTH CASTLE (PARCEL B) WETLAND MITIGATION PLANT SCHEDULE SUMMARY

Forested Wetland Zone (1.4 acres)

Canopy Trees Typical Species Red Maple, Green Ash, Pin Oak, Yellow Birch, Sweet Gum, Swamp White Oak

Density 65 trees/acre (25' o.c.)

Size 1.5"-2" caliper, 6'-8' whip, 4'-6' whip, 2'-4' whip

Quantity 90

Understory Trees Typical Species Ironwood, Shadblow, Alternate-leaved Dogwood, American Hornbeam, Pussy Willow

Density 35 trees/acre (35' o.c.)

Size 8'-10' Quantity 50

Shrubs Typical Species Witch Hazel, Spice Bush, Arrowwood Viburnum, Red-panicled Dogwood, Hardhack Spirea

Density 675 plants/acre (8' o.c.) Size from 18"-24" to 3'-4'

Quantity 950

Herbaceous Typical Species Woodland Aster, Joe-Pye Weed, Sensitive Fern, Boneset, False Solomon's Seal

Density 2,025 plants/acre (3X shrub density)

Size 1 qt. Container Quantity 2,850

Upland Forest Zone (0.6 acres)

Canopy Trees Typical Species Red Maple, American Beech, Red Oak, Tulip Poplar, White Ash

Density 65 trees/acre (25' o.c.)

Size 1.5"-2" caliper, 6'-8' whip, 4'-6' whip, 2'-4' whip

Quantity 40

Understory Trees Typical Species Shadblow, American Hornbeam, Alternate-leaved Dogwood, American Holly, Blackhaw

Viburnum

Density 35 trees/acre (35' o.c.)

Size 8'-10'
Quantity 20

Shrubs Typical Species Black Chokeberry, American Filbert, Atlantic Leatherwood, Carolina Rose, Arrowwood

Viburnum

Density 675 plants/acre (8' o.c.) Size from 18"-24" to 3'-4'

Quantity 400

Herbaceous Typical Species White Baneberry, Jack in the Pulpit, Woodland Aster, White Snakeroot, Mayapple,

Scented Goldenrod

Density 2,025 plants/acre (3X shrub density)

Size 1 qt. Container

Quantity 1,200

Wet Meadow Zone (1.6 acres)

Shrubs Typical Species Buttonbush, Common Alder, Silky Dogwood, Common Winterberry, Northern Blackberry

Density 1,225 plants/acre (6' o.c.) Size from 18"-24" to 3'-4'

Quantity 1,950

Herbaceous Typical Species Big Blue Stem, Swamp Milkweed, Hyssop-leaved Boneset, Cinnamon Fern, Switchgrass

Density 3,675 plants/acre (3X shrub density)

Size 1 qt. Container

Quantity 5,850

Open Water (0.3 acres)

Herbaceous Typical Species Spatterdock, Fragrant White Water Lily

Density 43, 250 plants/acre (1.0' o.c.)

Size 1 qt. Container Quantity 12,975

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